# MSI-6360 Port-A-Weigh Crane Scale Retrofit Kit Installation Instructions

The MSI-6360 Retrofit Kit updates MSI-6260 and older generations of the MSI-6360 to the most current configuration. Generation information is located on the serial tag.



Manuals are available from Rice Lake Weighing Systems at <u>www.ricelake.com/manuals</u>

Warranty information is available at www.ricelake.com/warranties



Figure 1. MSI-6360 Retrofit Kit Parts Diagram

Item No.	Part No.	Description	Qty
1	215841	Front Casting Assembly 6360	1
2	215934	Bulkhead Assembly 6360	1
3	149724	O-ring Assembly Front Casting Paw/Trans-Weigh	2
4	198913	Conn, IP67, Euro Field Wireable, 4 Cond, Female Straight PG-9	1
5	145998	Screw SH 3/8-16 x 1-1/4 SS	3
6	162185	Conn, M12 4 Pin Male Field Wireable 6-8mm OD Straight IP67	1
7	133597	Screw Seal 3/8-16 x 1-1/4 SS Drilled Head	1
-	145962	Screw RH 4 x 1/4 U Type Drive Plated	2
-	146565	Screw FH 6-32 x 5/8 Phil SS	2
-	149679	Tag Serial Number	1
-	215948	Label Descriptive 6360	1

Table 1. MSI-6360 Retrofit Kit Parts List



## 1.0 Removing the Existing Front Casting

WARNING: Ensure that all power has been removed prior to starting the procedure.

- 1. Turn the MSI-6360 off.
- 2. Remove the front casting by loosening the screws securing it. See Figure 2.
- 3. Unplug the load cell and power cables from the front casting or bulkhead. Discard casting and hardware.
- 4. With one hand, support the battery access cover.
- 5. Release the two latches holding the battery access cover.
- 6. Carefully lower the cover while holding the battery in place, it could be loose and fall causing damage.
- 7. Remove the battery by pulling straight back.
- 8. Close the cover and secure with latches.
- 9. Remove the battery casting by loosening the screws securing it. Retain for re-installation.



Figure 2. Front Casting Removal

## 2.0 Rewiring Load Cell Cable

- 1. Locate the cable coming out of the load cell.
- 2. Cut the connector off as close to the connector as possible.
- 3. Strip the cable jacket as needed to allow 1/2 3/4 inch of exposed conductors, Red, Green, White and Black.
- 4. Cut the shield/drain wire flush with the end of jacket.
- 5. Strip the Red, Green, White and Black wires approximately 1/4 inch and tin with solder.
- 6. Connect the wires to the connector together as shown in Table 2. and Figure 3.

L/C Cable Conductor Color	Function	Connector Pin Number
Red	+Excitation	1
Black	-Excitation	2
Green	+Signal	3
White	-Signal	4

Table 2. Load Cell Cable Connections



Figure 3. L/C Cable Connector

### 3.0 Rewiring the Battery Cable

- 1. Locate the power cable coming from the inside of the battery casting.
- 2. Cut the connector off the battery cable as close to the connector as possible.
- 3. Strip the cable jacket as needed to allow 1/2 3/4 inch of exposed conductors, Red and Black.
- 4. Cut the shield/drain wire flush with the end of jacket.
- 5. Strip the Red and Back wires approximately 1/4 inch and tin with solder.



6. Connect wire to the connector as shown in Table 3. and Figure 4.

Battery Cable Conductor Color	Function	198913 Connector Pin Number
Red	+ Battery	1
Black	- Battery	2
-	Not Used	3
-	Not Used	4

Table 3. Power Cable Connections



Figure 4. Battery Cable Connector

### 4.0 Reassembling the Unit

- 1. Place the o-ring in the groove on the bulkhead of the supplied front casting. Ensure bulkhead is correctly aligned on the front casting.
- 2. Plug the updated cables into the cable connectors on the bulkhead. Load cell cable connects to the male connector and power cable connects to the female connector.
- 3. Place the front casting assembly on mid-casting assembly and secure with the supplied 3/8 inch drive head screws, torqued to 20–25 ft-lbs (see Figure 2 on page 2).

IMPORTANT: To comply with NTEP, remove the old serial tag on the mid casting. The new serial tag is located on the front casting.

- 4. Reinstall the battery casting securing with the retained hardware.
- 5. Calibrate the unit, see the technical manual (PN 216128) for the calibration procedure.



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